

Simplifying Expressions 1:5:3 Name _____

If possible, combine like terms to simplify each expression.

1) $6y + 4x + 3y$

2) $12 + 18r + 15 - 4r$

3) $5m + 4n + 15m$

4) $6xy + 7xyz$

5) $7h + 8k - 3h - 2h + 4k$

6) $8g + 9 - 6g - g$

7) $5 + 10 + 10p + 6 - 4p$

8) $5 + 4r - 3 + 7r + 32r^2 - 12r^2$

9) $v - v$

10) $c + c + c + c + c$

Solve each equation.

11) $5w = 120$

12) $y - 8 = 46$

13) $\frac{m}{4} = 6$

14) $5h - 1 = 19$

15) $27 = 5k - 3$

16) $4j + 11 = 39$

Solve each equation.

17) $16 + 4u = 32$

18) $7y - 15 = 55$

19) $\frac{p}{7} - 1 = 3$

Write an equation for each situation. Tell what each of your variables represents.

20) The total cost of admission to Disney World is \$79 for adults and \$68 for children.

21) The total cost of going to the opera is \$30 for each adult, \$18 for students, and \$6 for kids under 5 years old.

22) Find the cost of attending the opera for a family of 2 adults, 2 students, and 2 kids under 5 years old using your equation from #21.

- 6) The total cost of admission to the school play is \$3 for adults, \$2 for students, and \$1 for children under six years of age.

- 7) Yolanda's boots cost \$5 less than the cost of Sam's boots.

- 8) Matt's right sock has twice the amount of holes as his left sock.

- 9) Basha's boots cost \$80 more than Chad's boots.

- 10) Tim's shoe size is half the size of Chad's shoe size.
